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>Title: **CN1055185A: WATER-ABSORPTION MATERIAL PRODUCED BY GR
MODIFICATION WITH CELLULOSE INITIATED BY POTASSIUM
PERMANGANATE**

Derwent Title: Water-absorption material for agriculture and forestry - is prep'd. by grafting microcrystalline cellulose initiated by potassium permanganate in acidic medium NoAbstract [\[Derwent Record\]](#)

Country: CN China 

Kind: A Unexamined APPLIC. open to Public inspection

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Application Number: CN19909090101692

IPC Code: Advanced: C08F 251/02; D06M 14/04;
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ECLA Code: None

Priority Number: 1990-03-24 CN19909090101692

Abstract: The water-absorbent material prepared by graft reaction of cellulose with olefine monomers such as acrylonitrile, mostly adopts cerium salt as initiator. Although the grafting efficiency is high, but it is expensive. This invention provides a method in which potassium permanganate is used in acidic medium to replace cerium salt as initiator so that a fibrous water-absorbent material can be obtained by graft reaction of cotton fibre or artificial fibre, and a powdery water-absorbent material is obtained by grafting of microcrystalline cellulose. The water-absorbent material provided by this invention can quickly absorb non-ionic water by over 20-200 fold, and after water absorption it has a high gelatinating strength, not liable to break, and a strong water-retaining capacity. It is suitable for water-retaining agent in agriculture and forestry, as well as for sanitary material.

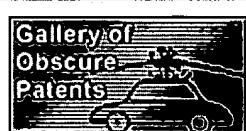
Family:

Buy PDF	Publication	Pub. Date	Filed	Title
				WATER-ABSORPTION MATERIAL PROD

<input checked="" type="checkbox"/>	CN1055185A	1991-10-09	1990-03-24	GRAFT MODIFICATION WITH CELLULOSE INITIATED BY POTASSIUM PERMANGANATE
1 family members shown above				

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